

Practical Assignments**Sub: RDBMS Using Oracle -1**

(1) Create the following tables in oracle.

Table-1: TblEmp
PrimaryKey: Eno

Fields	Data types	Size
Eno	Varchar2	5
Ename	Varchar2	20
EDept	Varchar2	15
EDesig	Varchar2	15
EContact	Number	10

Table - 2: TblEmpSal
PrimaryKey: Eno

Fields	Data types	Size
Eno	Varchar2	5
Ename	Varchar2	20
ESal	Number	8,2
Epf	Number	8,2
Egross	Number	8,2

Table - 3: TblAddress
PrimaryKey: Cityno

Fields	Data types	Size
Cityno	Number	5
Cityname	Varchar2	20
Add1	Varchar2	8
Add2	Varchar2	8
Pincode	Number	8

(2) Create the following tables in oracle.

Table - 1: TblStdDetail
PrimaryKey: Sno

Fields	Data types	Size
Sno	Varchar2	5
Name	Varchar2	20
Add	Varchar2	50
City	Varchar2	20
Contact	Number	10
DOB	Date	6
Standard	Number	2
Per	Number	2,2

Table - 2: TblStdMarks
PrimaryKey: Sno

Fields	Data types	Size
Sno	Varchar2	5
Name	Varchar2	20
Sub1	Number	3
Sub2	Number	3
Sub3	Number	3
Sub4	Number	3
Sub5	Number	3
Sub6	Number	3
Sub7	Number	3
Total	Number	5
Per	Number	2,2
Grade	Varchar2	3

Table - 3: TblStdAttendance
PrimaryKey: Sno

Fields	Data types	Size
Sno	Varchar2	5
SName	Varchar2	25
Month	Varchar2	10
PresentDays	Number	3
AbsentDays	Number	3
TotalDays	Number	3

(3) Create the following tables in oracle.

Table-1: TblBookDetail

PriamryKey: B_id

Fields	Data types	Size
B_id	Number	5
Btitle	Varchar2	25
Author_name	Varchar2	25
Publisher	Varchar2	25
Pages	Number	3
Price	Number	3
ISBN	Number	5
Category	Varchar2	25

Table-2: TblAuthorDetail

PriamryKey: A_id

Fields	Data types	Size
A_id	Number	5
Fname	Varchar2	25
Lname	Varchar2	25
Add	Varchar2	25
Contact	Number	10
ISBN	Number	5
Email	Varchar2	25

Table-3: TblBookCopies

PriamryKey: B_id

Fields	Data types	Size
B_id	Number	5
B_title	Varchar2	25
Author_name	Varchar2	25
Price	Number	3
ISBN	Number	5
Category	Varchar2	25
Copy_avail	Number	3

Table-4: TblBookIssue

PriamryKey: B_id

Fields	Data types	Size
B_id	Number	5
B_title	Varchar2	25
Author_name	Varchar2	25
ISBN	Number	5
Category	Varchar2	25
IssueDate	Date	6
ReturnDate	Date	6
User_Id	Number	5
Username	Varchar2	25
Remarks	Varchar2	25

(4) Create the following tables in Oracle.

Table Defination-1: TblCustAddress

Fields	Data types	Size
Cno	Varchar2	5
CFname	Varchar2	20
Cadd	Varchar2	25
City	Varchar2	20

Table Defination-3: TblBankaccount

Fields	Data types	Size
Cno	Varchar2	5
Acno	Varchar2	5
Actype	Varchar2	5
Curbal	Number	8,2
Minbal	Number	8,2
Maxbal	Number	8,2

**Table Defination-5: TblEmpmaster
[Bank Related]**

Fields	Data types	Size
Eno	Varchar2	5
Bno	Varchar2	5
Fname	Varchar2	20
Lname	Varchar2	20

Table Defination-2: TblBank

Fields	Data types	Size
Bno	Varchar2	5
Cno	Varchar2	5
Acno	Varchar2	5
CustName	Varchar2	20
Actype	Varchar2	5
Odate	Date	
Amount	Number	8,2
NetBal	Number	8,2

Table Defination-4: TblBanktrans

Fields	Data types	Size
acno	Varchar2	5
Tdate	Date	
Drcr	Number	8,2
Tno	Varchar2	5
Amount	Number	8,2

**Table Defination-6: TblBranchmaster
[Bank Related]**

Fields	Data types	Size
Eno	Varchar2	5
Bno	Varchar2	5
Bname	Varchar2	20
Bcity	Varchar2	20

Table Defination-7: TblAccmaster

Fields	Data types	Size
Acfdno	Varchar2	5
Cno	Varchar2	5

Table Defination-8: TblAccFD

Fields	Data types	Size
Acno	Varchar2	5
Bno	Varchar2	5
Curbal	Number	8,2
Intrest	Number	8,2

(5) Create a table with following structure. Give name “student” and insert 20 records.

Column name	Data type	Size	Desc.
Rollno	Number	4	Primary key
Name	Varchar	10	Not Null
Course	Varchar2	8	BCA, MCA, PGDCA
Sem	Varchar2	8	1 To 6
Sub1	Number	4	1 to 100
Sub2	Number	4	1 to 100
Sub3	Number	4	1 to 100
Total	Number	5	Default 0
Per	Number	5,3	Default 0
Result	Varchar2	5	Null
Class	Varchar2	15	Null

Modify table structure (Add new fields, remove fields, rename table)

1. Insert 10 records into the table.
2. Calculate total, per, result.
3. Insert one new column named “city”.
4. Update city = Baroda in all records.
5. Change the size of “class” field to 20.
6. Change the datatype of “name” field to varchar2(25).
7. Rename the table to student_data.
8. Insert one new column “address”.
9. Remove the column “address”.

Simple SELECT statement

- ❖ Perform the following queries on student_data table.
1. Display all records of above table.
 2. Display all records of the students whose per is greater than 60%.
 3. Display name of students whose name is “Ajay”.
 4. Display name of students whose class is “B”.

5. Display all of students whose course is "BCA".
6. Display all records of students whose sem is "I".
7. Display all the records with column Name, course and sem.

SELECT statement WHERE clause

1. Find all the students of city "rajkot".
2. Find all the students who are not from "rajkot".
3. Display the rollno, name and city of the students with first class.
4. Find out the list of all students who stay in "delhi" or "rajkot".
5. Find all the students whose total mark is greater than 200.
6. Display the information of student whose roll no is 2.
7. Find the students whose percentage is between 50 and 60.
8. Delete all students whose total is below 100.
9. Delete all students of city "delhi" and department PGDCA.

SELECT statement with ORDER BY, DISTINCT clause

- ❖ Perform the following queries on student_data table.
1. Display the student list having first or second class.
 2. Display the student list having first or second class and living in city "rajkot".
 3. Display student name, total and city whose total is greater than 200 and living in city "rajkot" or "Bombay".
 4. Display all students of "rajkot" or "Bombay" and of MCA or PGDCA department.
 5. If the marks 20 of discipline is added to the total then display the new total with the column heading "newtotal" along with rollno, name , total.
 6. In above query display the percentage with "%" sign.
 7. Display name, city and total in descending order of total.
 8. Display the list of student alphabetically.
 9. Display name and city of all students with unique name.

USE INBUILT FUNCTIONS

- ❖ Perform the following queries on student table.
1. Find maximum total.
 2. Find average of total.
 3. Find sum of total of all students.
 4. Find total number of students.

USE GROUP BY and HAVING clause

- ❖ Perform following queries.
1. Display the student data city wise.

2. Display course wise total number of students.
3. Display course wise average total of all students
4. Display semester wise course and city of all students of bca and mca.
5. Display result wise sum of total and sum of percentage of all students.
6. Display course wise average total of students of sem1 and sem2 students.
7. Display class wise count of all students of MCA who got first class or distinction.
8. Update class to "First class" who got percent greater than 70.